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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/507,064	02/18/2000	Chang-Ho Oh	12705-8011 8894	
7.	590 11/16/2004		EXAM	INER
Perkins Cole L L P 1201 Third Avenue		,	ABEL JALIL, NEVEEN	
Suite 4800	enue		ART UNIT	PAPER NUMBER
Seattle, WA	98101		2165	
	\`.		DATE MAILED: 11/16/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/507,064	OH, CHANG-HO				
Office Action Summary	Examiner	Art Unit				
•	Neveen Abel-Jalil	2165				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>July</u>	<u>23, 2004</u> .					
	This action is FINAL. 2b) ☐ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	expante quayio, rece e.e. v., v.					
4) ☐ Claim(s) <u>1-61</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) <u>1-56</u> is/are allowed. 6) ☐ Claim(s) <u>57-61</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examin						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Onity documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

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DETAILED ACTION

Remarks

1. The amendment filed on July 23, 2004 has been received and entered. Claims 1-61 are pending.

Claim Objections

2. Claims 29-30, 39, 45, 52, 56, and 60-61 are objected to under 37 CFR 1.75(c) as being improperly written multiple dependent claims, but are in fact multiple independent claims. Claims 29-30, 39, 45, 52, 56, 60-61 should be re-written either as separate independent claims or separate claims containing independent and corresponding dependent claims. See MPEP § 608.01(n). Accordingly, the claims are independent claims and should be written as such. They are claiming different and distinct embodiments of the claimed invention.

Claim Rejections - 35 USC § 101

- 3. 35 U.S.C. 101 reads as follows:
 - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 4. Claims 8-24, 35-55 are rejected under 35 U.S.C. 101 because the claims are directed to a non-statutory subject matter, specifically, directed towards an data structure.

The language of the claim raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine

which would result in a practical application producing a concrete, useful, and tangible result to form the basis of statuary subject matter under 35 U.S.C. 101.

Database Structures not claimed as embodied in computer-readable media are descriptive material <u>per se</u> and are not statutory because they are neither physical "things" nor statutory processes. Applicant's claims are not within any of the statutory classes. "A database structure" should define structural and functional interrelationships between data structures or functional parts and a computer system which permit the data functions to be realized, and is statutory.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 57-61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 57, line 7, the limitation "a described model element" render the claim(s) indefinite because it is unclear to the examiner "which structure or description or model element" is being referenced by the limitation. Is it the first structure, or the description of the first structure or the model of the description of the first structure?.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 57-61 are rejected under 35 U.S.C. 102(e) as being anticipated by Bowman-Amuah (U.S. Patent No. 6,662,357 B1).

As to claim 57, <u>Bowman-Amuah</u> discloses a computer-readable medium containing a model segment data structure such that a complete model can be created from multiple model segments (See column 2, lines 20-40), the data structure comprising:

at least one description of a model element (See column 131, lines 22-28) having a first structure (See column 81, lines 43-67, wherein "first structure" reads on "structure");

at least one reference to another model element having a second structure and whose description is contained in another model segment (See column 75, lines 30-67, also see column 82, lines 1-67); and

a description of a relationship between a described model element and a reference to another model element that represents an alteration of at least one of the first and second structure (See column 79, lines 50-60, also see column 75, lines 39-67).

As to claim 58, <u>Bowman-Amuah</u> discloses including a description of a relationship between a described model element and a reference to another model element (See column 76, lines 52-67, also see column 77, lines 1-54).

As to claim 59, <u>Bowman-Amuah</u> discloses wherein each of the structures includes at least one attribute (See column 76, lines 52-67, also see column 77, lines 1-54).

As to claim 60, <u>Bowman-Amuah</u> discloses wherein the computer readable medium is a data transmission medium transmitting a generated data signal containing the data structure (See column 6, lines 53-67).

As to claim 61, <u>Bowman-Amuah</u> discloses wherein the computer readable medium is a memory of a computer system (See column 6, lines 53-67).

Allowable Subject Matter

9. Claims 1-56 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, and under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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The prior art of record (<u>Bowman-Amuah</u> -U.S. Patent No. 6,662,357 B1) do not disclose, teach, or suggest the claimed limitations of (<u>in combination with all other</u> <u>features in the claim</u>), creating a first database element in a first model segment; under control of a second user, creating a second database element in a second model segment; creating an external first database element in the second model segment, the external first database element representing the first database element; substituting the first database element for the external first database element in the complete logical database model; and creating the relationship in the complete logical database model between the second database element and the substituted first database element, as claimed in Indepedent claim 22, in conjunction with remaining claims provisions.

Claims 2-7 are allowed over the prior art made of record, because they dependent from the allowed independent claim 1.

The prior art of record (Bowman-Amuah -U.S. Patent No. 6,662,357 B1) do not disclose, teach, or suggest the claimed limitations of (in combination with all other features in the claim), receiving an indication of a first model segment that when displayed contains visual representation of a first mod& element, a visual representation of a reference to a second model element whose primary visual representation is contained in a second model segment when displayed; and replacing the indication of the visual representation of the reference with the retrieved indication of the primary visual representation, as claimed in Indepedent claim 40, in conjunction with remaining claims provisions.

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Claims 41-45 are allowed over the prior art made of record, because they dependent from the allowed independent claim 40.

The prior art of record (<u>Bowman-Amuah</u> -U.S. Patent No. 6,662,357 B1) do not disclose, teach, or suggest the claimed limitations of (<u>in combination with all other</u> <u>features in the claim</u>), for each of a plurality of model segments, for each model element indicated in the model segment; determining whether the indicated model element is a reference to another model element defined in another model segment; replacing the reference with the added indicated model element, so that references to other model elements in the model segments are replaced in the complete model with the other model elements, as claimed in Indepedent claim 40, in conjunction with remaining claims provisions.

Claims 47-52 are allowed over the prior art made of record, because they dependent from the allowed independent claim 46.

The prior art of record (<u>Bowman-Amuah</u> -U.S. Patent No. 6,662,357 B1) do not disclose, teach, or suggest the claimed limitations of (<u>in combination with all other</u> <u>features in the claim</u>), creating a first model element and a second model element in a first model segment; creating a first relationship between the first model element and the second model element; creating a third model element in a second model segment;

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creating an external first model element in the second model segment, as claimed in Indepedent claim 53, in conjunction with remaining claims provisions.

Claims 54-56 are allowed over the prior art made of record, because they dependent from the allowed independent claim 53.

Response to Arguments

10. Applicant's arguments filed on July 23, 2004 have been fully considered but they are not persuasive.

In response to Applicant's arguments directed to the reasoning behind the objects set forth in the office action with respect to claims 29-30, 39, 45, 52, 56, and 60-61. The Examiner's maintains that they are in fact indepedent claims and should be treated (rewritten) as such. They are claiming different and distinct embodiments of the claimed invention.

In response to Applicant's arguments directed to rejections under U.S.C. 101 with respect to claims 8-24, 35-55, the Examiner maintains that the rejection stands specifically stating that if presumably the claims are directed to a "database" structure which is not claimed, they are claimed towards a method that must be embodied on a computer-readable medium to be preformed. Otherwise, it remains as just a model that can be constructed manually.

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The mere method of "creating a model" or "assembling a model" only constitute an abstract idea that is not implemented in a physical medium or stored in a database, hence the rejection stands.

Applicant's argument that "Bowman-Amuah fails to disclose, suggest, or teach a description of a relation between a non-external model element and an external model element that represents an alteration of at least one of the structures associated with the model elements" is respectfully acknowledged but it is not deemed to be persuasive.

The Examiner point to <u>Bowman-Amuah</u> column 76, lines 1-49, also see column 79, lines 52-60, wherein <u>Bowman-Amuah</u> discloses external systems influence the design model and the applications structure. The process-modeling tool should enable the description to be documented in many formats including decision tables.

The terms "non-external" and "external" are not disclosed in the claim language.

Neither are the means for developing the structures or relationships being claimed.

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Neveen Abel-Jalil whose telephone number is 703-305-

8114. The examiner can normally be reached on 8:30AM-5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dov Popovici can be reached on 703-305-3830. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Neveen Abel-Jalil November 9, 2004 CHARLES RONES
PRIMARY EXAMINER

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